

Message

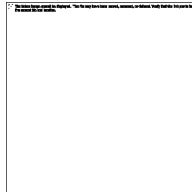
**From:** LinkedIn Updates [messages-noreply@linkedin.com]  
**Sent:** 1/31/2018 6:13:05 PM  
**To:** Cogliano, Vincent [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=51f2736376ac4d32bad2fe7cfef2886b-Cogliano, Vincent]  
**Subject:** Congratulate Michael Clipper on the new position

Vincent  
James  
Cogliano



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**Michael Clipper** has a new position at FEMA

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Professional milestones



**Jarabek Annie** is celebrating a 4-year work anniversary  
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**Jean Latimer** is celebrating a 7-year work anniversary  
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**Melvin Andersen** is celebrating a 2-year work anniversary  
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## New Connections



**Richard Gorman** has 3 new connections



**Roberta Scherer** has 2 new connections



**Mark Eisner** is now connected to **Retsef Levi**



**Retsef Levi**  
Professor at MIT Sloan School of Management



**Peter Jackson** has 2 new connections



**Scott Tomar** is now connected to **Jason Portnof, DMD, MD, FACS, FICD**



**Jason Portnof, DMD, MD, FACS, FICD**  
Director, Pediatric Craniomaxillofacial Surgery



**John Vahle** is now connected to **Vikas Kulshreshtha**



**Vikas Kulshreshtha**  
Veterinary Pathologist at Toxikon Corporation

## What your network is saying



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*"A concise and very relevant editorial from EFSA Executive Director in Nature. Easy to read; and triggering a lot of reflections...."*



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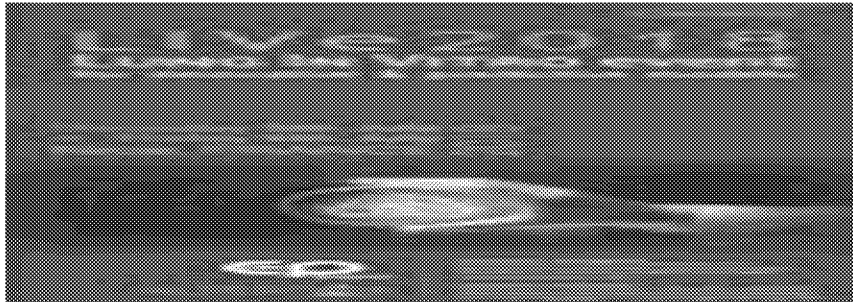
**Doctor who treated Kentucky school...**

"You don't suffer some of the wounds these patients suffered and just move on with life," he said.

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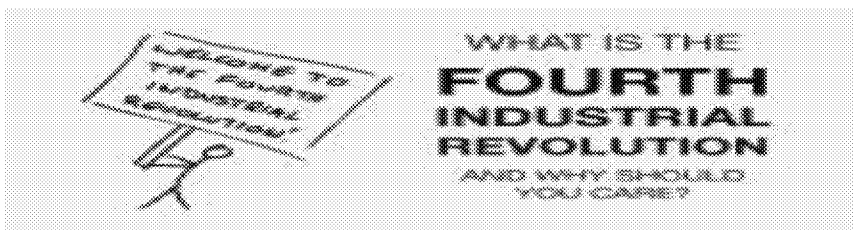
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## What is the Fourth Industrial...

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"<https://lnkd.in/e5kFX5u>"



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*"A new federal infrastructure package presents a critical opportunity to strengthen America's infrastructure against the growing..."*

## POLICY OPTIONS FOR CLIMATE-RESILIENT INFRASTRUCTURE



A new federal infrastructure package presents a critical opportunity to strengthen America's infrastructure against the growing risks posed by extreme weather and other impacts of climate change. Increasing the climate resilience of the nation's infrastructure can substantially reduce future losses, benefiting public health, safety, quality of life, and property. This policy brief outlines the benefits of climate-resilient infrastructure and criteria that should inform infrastructure planning and investment to enhance climate resilience. It identifies the types of infrastructure projects that can promote resilience while simultaneously achieving other climate and energy goals and recommends changes to existing federal policies and programs to ensure ongoing improvement to the climate resilience of America's infrastructure.

### BENEFITS OF RESILIENT INFRASTRUCTURE

Even without considering the impacts of climate change, the American Society of Civil Engineers estimates that failure to make necessary investments in infrastructure will cost the United States 2.3 million jobs and \$4 trillion in GDP over this decade (2016–2025) and that the average home hold will lose \$3,600 a year.<sup>1</sup> Recent events, however, illustrate how changes to the climate could result in even greater losses. Many parts of the country are currently rebuilding infrastructure damaged during the extreme weather events of 2017. Last year, the United States experienced 16 weather and climate disasters resulting in losses exceeding \$1 billion each, with a record-breaking \$306 billion in cumulative losses.<sup>2</sup>

All evidence suggests this trend will grow through at least the end of this century. Investing in resilience upfront is critical for long-lived infrastructure because the climate of 2050 and 2100 will look very different than today. A warmer, wetter atmosphere is expected to make rainfall more intense; extreme precipitation events could be two to three times more common by 2100 if global greenhouse gas emissions go unchecked.<sup>3</sup> Such long-term climate trends will take a toll on infrastructure. Fire-drought cycles tend to increase during warmer winters,

summer temperatures will be hotter, and rising sea levels will potentially inundate coastal infrastructure.

Resilience is the ability to anticipate, prepare for, and respond to hazardous events or trends. Improving climate resilience involves assessing how climate change will create new, or alter, existing climate-related risks faced by communities, structures, and vulnerable populations, and taking steps to better address those risks.

For projects with a long design life, consideration of climate and weather protections can save taxpayers' money by reducing future disaster costs, extend the life of infrastructure projects, save lives in extreme weather events, and accelerate recovery afterward. In some cases, upfront investments in resilience can yield over a project's lifetime at least four times the savings from avoided damages due to extreme weather.<sup>4</sup> For example, projects to reduce wind and water damage in Florida were found to have avoided \$81.1 million in losses when Hurricane Matthew struck while they only cost \$19.2 million to implement.<sup>5</sup>

Fortunately, many of the features that would make an infrastructure project resilient provide other benefits as well. These benefits include reduced long-term fiscal

## Policy Options for Climate-Resilient...

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This email was intended for Vincent James Cogliano (Health Risk Assessment Scientist at U.S. Environmental Protection Agency). [Learn why we included this.](#)



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